

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>3</u>	
Coordinates:	Date: <u>12-14-87</u>	Water Depth <u>37'</u> NGVD	
N = <u>855395.8</u>	Start Time <u>1452</u>	Driller <u>M L. CLARKE</u>	
E = <u>817852.7</u>	End Time <u>1510</u>	Client Rep. <u>JEFF ANDREWS</u>	
		Client Rep. <u>FRED KAUB</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3.0'</u>		0				
Length of Barrel <u>20'</u>				GREY SAND (10yr 7/1)		
Penetration Depth <u>16.6'</u>					3.0'	(SP)
Length Recovered <u>16.4'</u>						
Length Retained <u>16.4'</u>		5		GREY SAND (10yr 7/2)	6.0'	(SP)
Remarks: <u>PENETRATION TIME 18MIN</u>				GREY SAND (10yr 7/1)		
Support Vessel <u>G.W. PIERCE</u>		10				
Positioning System <u>TRISPONDER</u>				BROWN SAND (10yr 7/3)	11.0'	(SP)
Positioning Remarks:				CEMENTED SAND & SHELL CONGL. UP TO 1.5" DIA.		
Weather <u>CLEAR</u>		15		GREY SAND (10yr 7/1)		
Wind Dir: <u>SE</u>				CEMENTED SAND & SHELL CONGL. UP TO 1.5" DIA.	16.0'	(SP)
Est. Speed <u>15-20 K</u>						
Waves Dir: <u>SE</u>						
Height <u>3-4'</u>						
Current Dir: <u>N/A</u>						
Est. Speed:						
Analysis By: <u>FK</u>		20				
Date: <u>12/20/87</u>						
Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>						

GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	2	2	3
SAMPLE DEPTH (FT)	14.1	18.7	3

U.S.C.S.	SP	SP	SP
DESCRIPTION			

DRY SAMPLE WT (GRAMS)	191.22	165.32	225.43
SAMPLE WT AFTER WASH	187.25	162.35	221.36

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS
5	-2.00	4	0.17	0.09	99.91	,	0.00	0.00	100.00	,	0.00	0.00	100.00
7	-1.50	2.8	0.70	0.37	99.63	,	0.23	0.14	99.86	,	0.03	0.01	99.99
10	-1.00	2	1.25	0.65	99.35	,	0.53	0.32	99.68	,	0.20	0.09	99.91
14	-0.50	1.4	2.36	1.23	98.77	,	1.20	0.73	99.27	,	0.51	0.23	99.77
18	0.00	1	3.69	1.93	98.07	,	1.80	1.09	98.91	,	0.89	0.39	99.61
25	0.50	0.71	5.63	2.94	97.06	,	2.60	1.57	98.43	,	1.65	0.73	99.27
35	1.00	0.5	8.63	4.51	95.49	,	4.26	2.58	97.42	,	3.65	1.62	98.38
45	1.50	0.355	12.58	6.58	93.42	,	8.52	5.15	94.85	,	4.56	2.02	97.98
60	2.00	0.25	25.89	13.54	86.46	,	18.25	11.04	88.96	,	32.56	14.44	85.56
80	2.50	0.18	88.25	46.15	53.85	,	82.36	49.82	50.18	,	112.65	49.97	50.03
120	3.00	0.125	155.36	81.25	18.75	,	151.24	91.48	8.52	,	211.47	93.81	6.19
170	3.50	0.09	186.36	97.46	2.54	,	159.36	96.39	3.61	,	219.32	97.29	2.71
200	3.75	0.075	187.00	97.79	2.21	,	161.23	97.53	2.47	,	220.65	97.88	2.12
230	4.00	0.063	187.19	97.89	2.11	,	161.59	97.74	2.26	,	220.98	98.03	1.97
PAN			187.21	97.90		,	161.64	97.77		,	221.09	98.07	

SIEVE LOSS	0.04	0.71	0.27
WEIGHTED AVE (mm)	0.193	0.180	0.170
SILT-CLAY %	2.19	2.04	2.00

GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	3	3	3
SAMPLE DEPTH (FT)	6.0	11.0	16.0

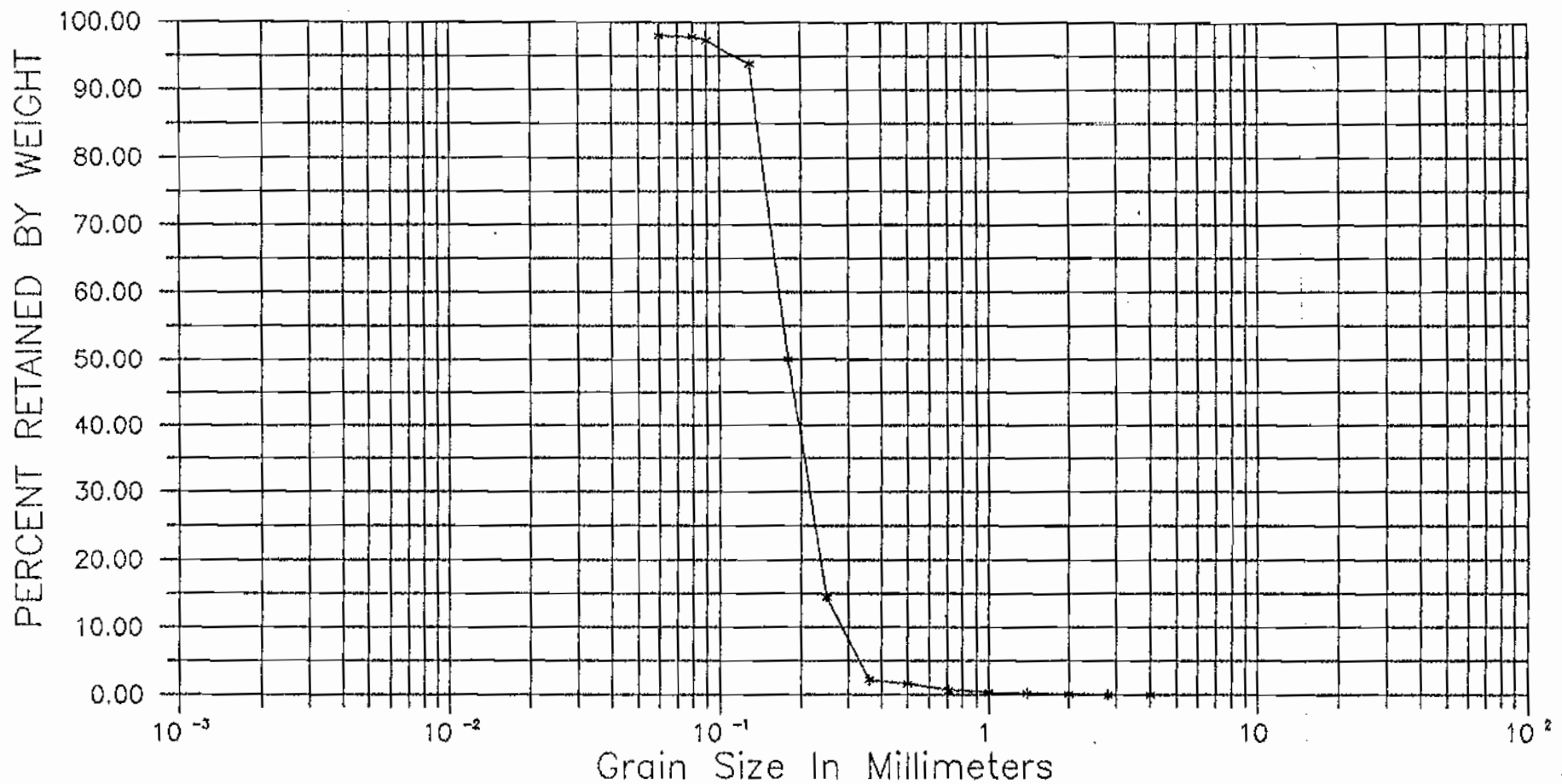
U.S.C.S.	SP	SP	SP
DESCRIPTION			

DRY SAMPLE WT (GRAMS)	396.32	265.98	284.75
SAMPLE WT AFTER WASH	390.54	262.31	279.34

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4	0.00	0.00	100.00	0.08	0.03	99.97	0.21	0.07	99.93
7	-1.50	2.8	0.13	0.03	99.97	0.17	0.06	99.94	0.28	0.10	99.90
10	-1.00	2	0.34	0.09	99.91	0.55	0.21	99.79	0.62	0.22	99.78
14	-0.50	1.4	1.02	0.26	99.74	1.21	0.45	99.55	0.98	0.34	99.66
18	0.00	1	2.26	0.57	99.43	4.02	1.51	98.49	1.26	0.44	99.56
25	0.50	0.71	6.33	1.60	98.40	5.02	1.89	98.11	2.01	0.71	99.29
35	1.00	0.5	12.53	3.16	96.84	8.41	3.16	96.84	4.01	1.41	98.59
45	1.50	0.355	40.21	10.15	89.85	12.56	4.72	95.28	5.69	2.00	98.00
60	2.00	0.25	150.23	37.91	62.09	30.26	11.38	88.62	25.37	8.91	91.09
80	2.50	0.18	257.36	64.94	35.06	129.36	48.64	51.36	118.36	41.57	58.43
120	3.00	0.125	364.25	91.91	8.09	215.34	80.96	19.04	225.34	79.14	20.86
170	3.50	0.09	387.21	97.70	2.30	259.36	97.51	2.49	277.36	97.40	2.60
200	3.75	0.075	389.36	98.24	1.76	261.24	98.22	1.78	278.32	97.74	2.26
230	4.00	0.063	389.56	98.29	1.71	261.59	98.35	1.65	279.14	98.03	1.97
PAN			389.69	98.33		261.72	98.40		279.18	98.04	

SIEVE LOSS	0.85	0.59	0.16
WEIGHTED AVE (mm)	0.208	0.176	0.159
SILT-CLAY %	1.54	1.56	2.20

MECHANICAL ANALYSIS CHART



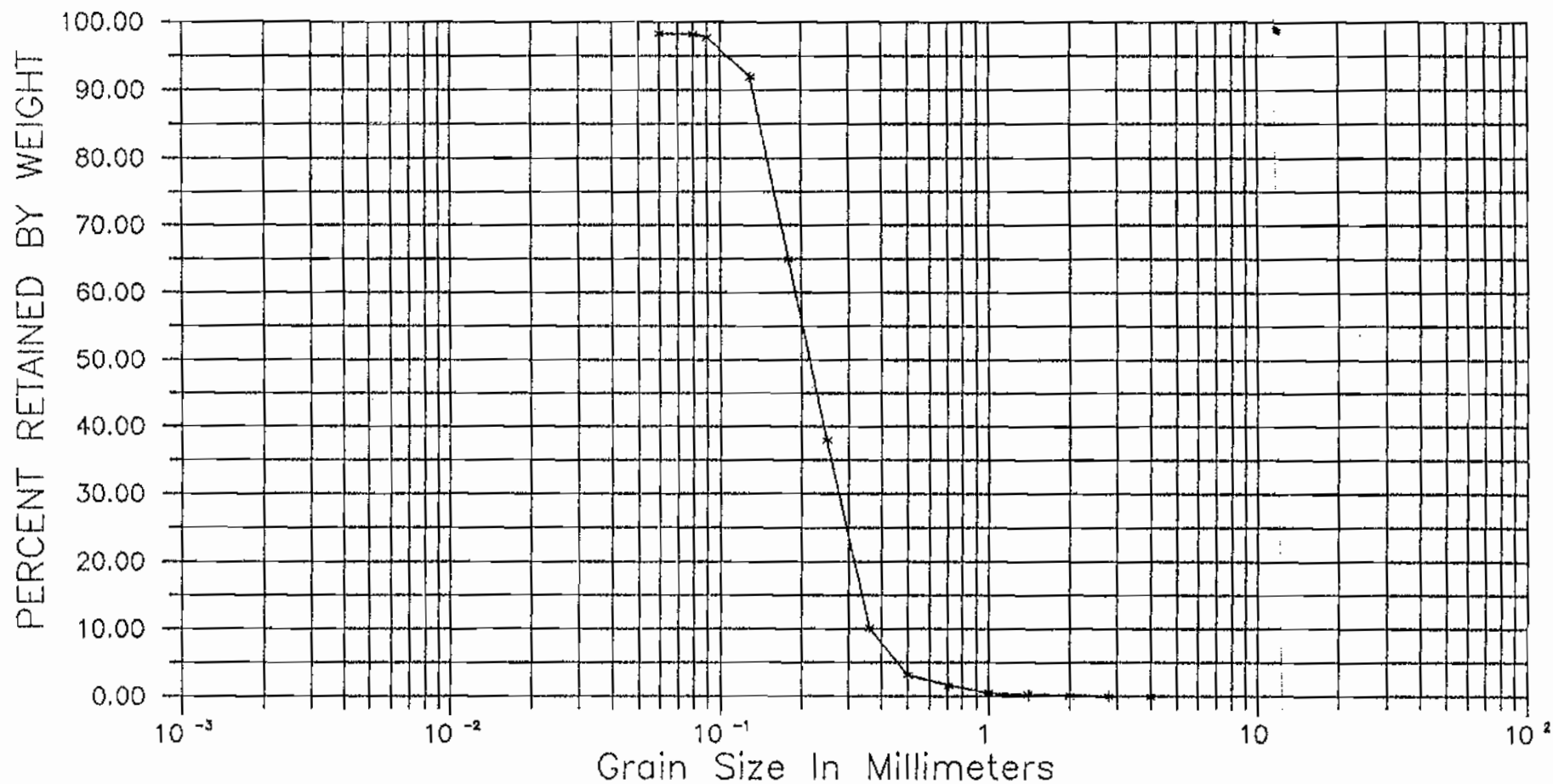
SILT OR CLAY		SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

	MEAN	MEDIAN	SORTING
3			
3'	.19mm	.18mm	.37
	.18mm	.18mm	.44
GREY POORLY GRADED SAND - (SP)			

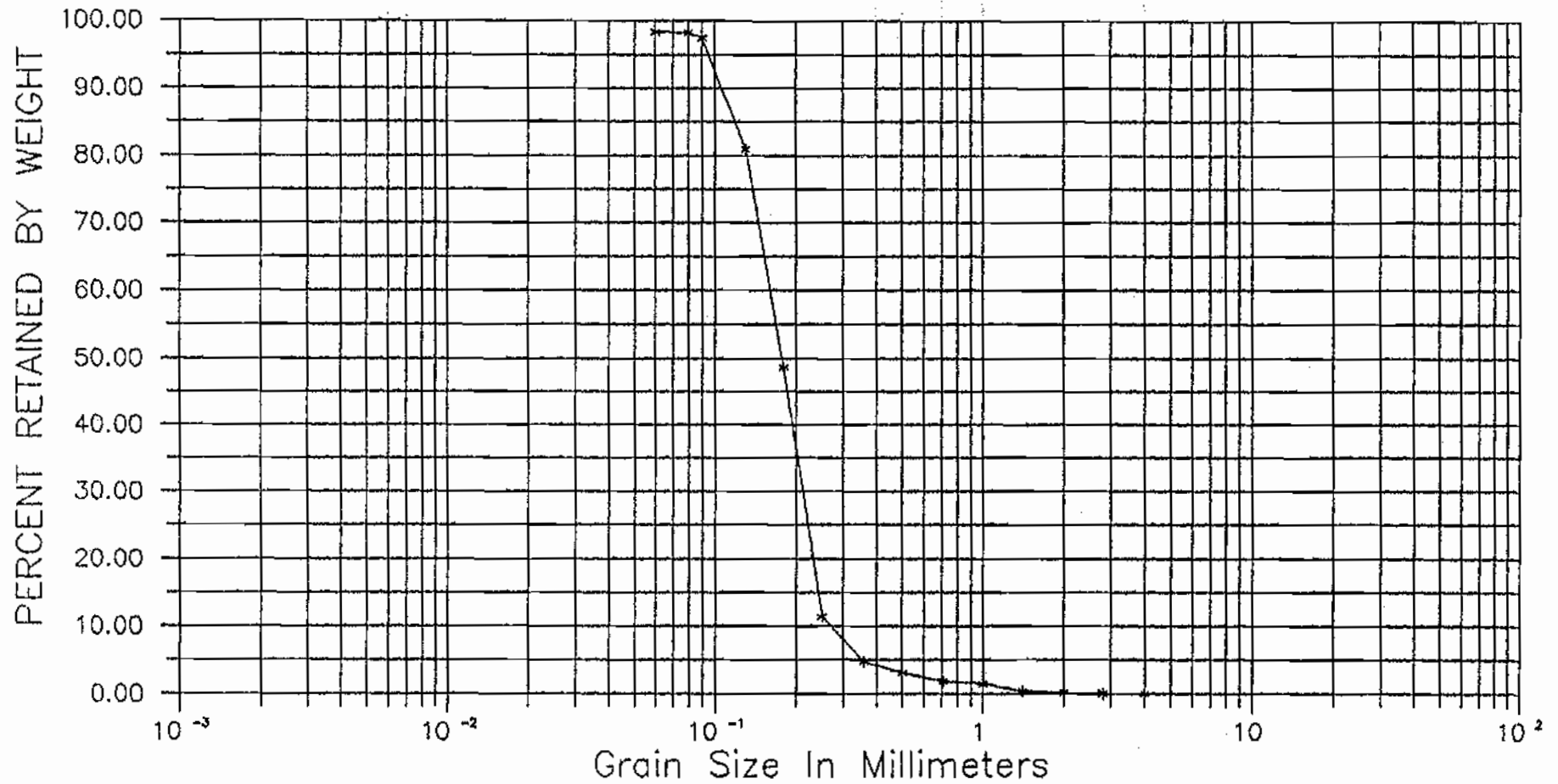
MECHANICAL ANALYSIS CHART



SILT OR CLAY		SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
	MEAN	MEDIAN	SORTING
3			
6'	22 mm	22 mm	.57
	.21	.21	.60
	GREY POORLY GRADED SAND - (SP)		

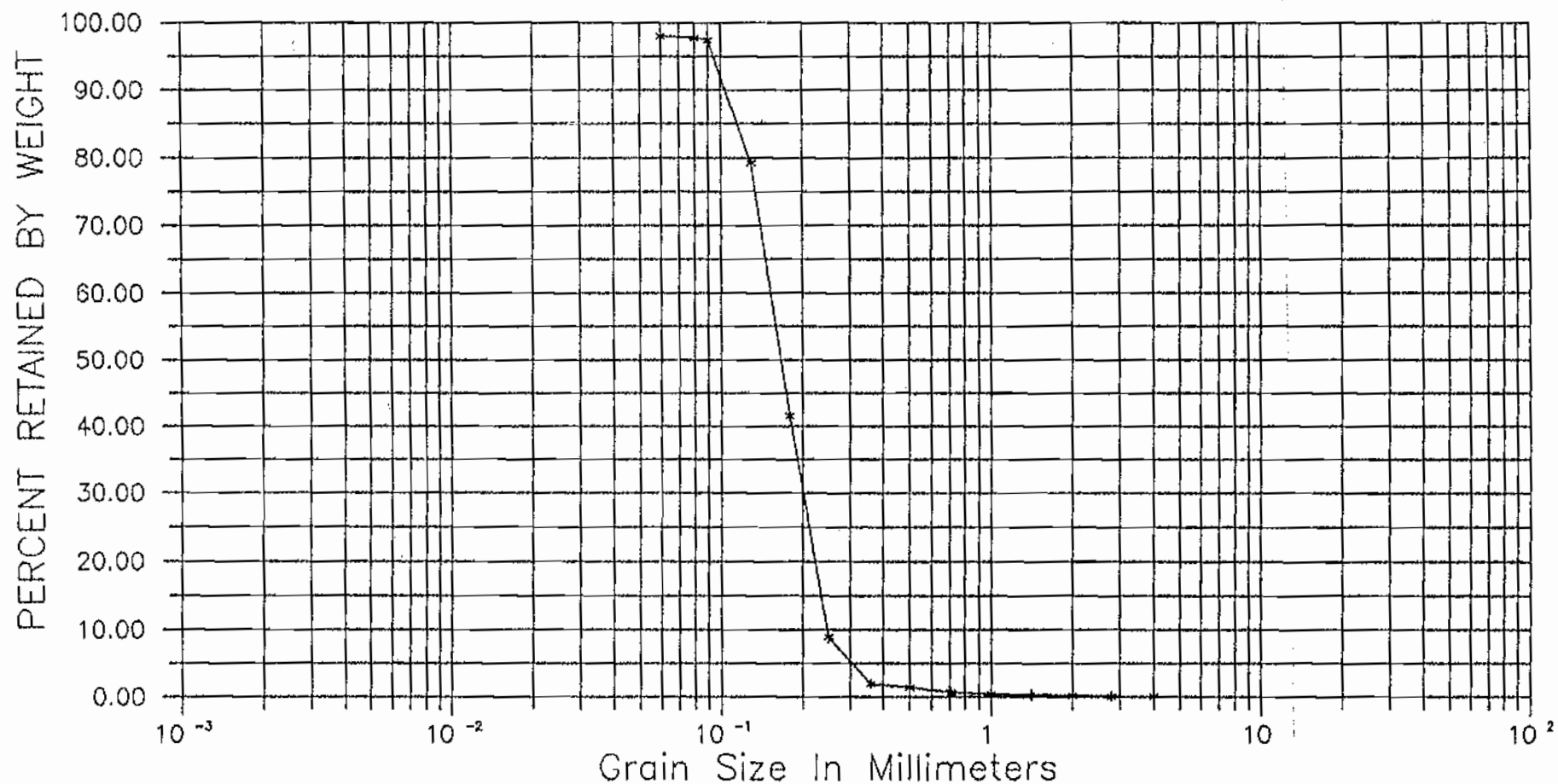
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
3	MEAN	MEDIAN	SORTING
11	.18	.18	.44
	.18	.18	.41
	BROWN POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
3	MEAN	MEDIAN	SORTING
16.1	17mm	17mm	44
	.17	.17	.44
	GREY POORLY GRADED SAND-(SP)		